



**BUREAU
VERITAS**

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RECEIPT 30/10/2019

TESTING DATES FROM 06/11/2019 TO 22/11/2019

COMMITTENT
ONGETTA SRL UNIPERSONALE
VIA DALLA TORRE 5 LEVADA
31047 PONTE DI PIAVE TV

LABORATORY REPORT n° 1938610 of 22/11/2019

DENOMINATION Analyses purchased by: GIULIA
Article: SILK YARNS (100% SILK): RAW SILK 20/22 1
PLY+SILK TRAM 20/22 2 PLYES - REF. ONGETTA SRL
and ITALTEXTIL SARATA SRL
Colour: RAW
Type of Material: Textile
Notes: COMPOSITION: 100% SILK_ FINISHES: RAW

Delivery Note: Not provided
Final Customer: BLUMINE
Requirements: BLUMINE NETWORK_Detox Price List for
Textile/Leather/Plastic/Chemical Products_V.1 extended list
Sampling: done by the client
Conditioning before and during the Trial: 24±2h; 20±2°C;
65±5% R.H. (If required by the test method, analysis
carried out in standard atmosphere)

Sample 01

Test	Pass	Fail	Failure result
Determination of ethoxylated alkylphenols. Part 2: indirect method - Test Method: ISO 18218-2: 2015	--	--	--
Method for the detection and determination of alkylphenolethoxylates (APEO) - Test Method: ISO 18254: 2016	--	--	--
Determination of chlorinated hydrocarbons in leather. Chromatographic method for short-chain chlorinated paraffins (SCCP). - Test Method: UNI EN ISO 18219: 2015	--	--	--
Gb Extractable Heavy Metal in Textile GB 17593.2 (modified) & Cr (VI) GB 17593.3 (modified) - Internal Method: CPSD-AN-00212	--	--	--
Determination of the phthalate content - Tetrahydrofuran method - Test Method: UNI EN ISO 14389: 2014	--	--	--
Textiles - Determination of metals content - Part 1: Determination of metal with microwave digestions - Test Method DIN EN 16711-1:2014	--	--	--
Detection of the use of certain Azo colorants accessible with and without extracting the fibres - Test Method: UNI EN 14362-1: 2017	--	--	--
Determination of Organotin Compounds in footwear materials - Test Method: UNI CEN ISO TS 16179: 2012	--	--	--
Determination of Perfluorinated Compounds - Internal Method: CPSD-AN-00668	--	--	--
Determination of FTOH in coated material by GC-MS - Internal Method: CPSD-AN-00667	--	--	--
Perfluorinated surfactants - Test Method: UNI CEN TS 15968: 2010	--	--	--
Determination of the content of bonds based on chlorobenzene and chlorotoluene - Test Method: DIN 54232: 2010	--	--	--
Analysis of consumer goods - Detection and determination of pentachlorophenol in consumer goods, particularly in leather and textiles - Test Method: BVL B 82.02-8: 2001-06	--	--	--

Continuing...

Approved on behalf of BUREAU VERITAS CERTEST srl by:
Dr. Verena BARTALINI – Laboratory Manager



LAB N. 1480



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Sample 01

Test	Pass	Fail	Failure result
Michler's Ketone and Base - Inhouse Test Method: IOP 55: 2016 Rev00	--	--	--
Solvent test by gas GC-HS - Inhouse test Method: CPSD-AN-00100 Rev.36: 2017	--	--	--
Bisphenol A, in plastics and textiles - Internal Method: CPSD-AN-00169	--	--	--
Test method to quantitatively determine polycyclic aromatic Hydrocarbons (PAH) in footwear materials - Test Method: UNI CEN ISO TS 16190: 2013	--	--	--
Determination of Vinyl chloride monomer (VCM) - Internal Method: CPSD-AN-00099	--	--	--
Determination of formaldehyde Part 1: Free and hydrolized formaldehyde (water extraction method) - Test Method: UNI EN ISO 14184-1: 2011	--	--	--
Detection of disperse dyestuffs - Test Method: DIN 54231: 2005	--	--	--
Glycol in textiles and plastics by GC-MS - Inhouse Method: CPSD AN 00822	--	--	--
Footwear - Critical substances potentially present in footwear and footwear components - Determination of Nitrosamines - Test method: ISO/DIS 19577: 2019	--	--	--
Determination of Epichlorohydrin - Inhouse Method: IOP 157 Rev.00:2019	--	--	--
Determination of Acrylonitrile and 1,3-Butadiene - Inhouse Method: IOP 158 Rev.00:2019	--	--	--
Determination of Ethyl acrylate - Inhouse Method: IOP 159 Rev.00: 2019	--	--	--
Determination of Acrylamide - Inhouse Method: IOP 160 Rev.00: 2019	--	--	--
Determination of flame retardants - Test method: ISO 17881-1: 2016	--	--	--
Determination of flame retardants - Test method: ISO 17881-2: 2016	--	--	--
TRIS, BIS, HBCDD, TBBPA, BBMP & BDBPT in textile - Internal Method: CPSD-AN-00131	--	--	--

Pass = Meets Buyer's requirements

Fail = Does not meet Buyer's requirements

-- = Buyer's requirements not defined

The values in brackets represent requirements stated in the document named in the "Requirements" field of the "Denomination" section

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Sample 1938610.01						
Determination of ethoxylated alkylphenols. Part 2: indirect method - Test Method: ISO 18218-2: 2015 <u>Operating Conditions</u> - Solvent extraction - Determination by GC-MS analysis (L2)	4-n- Nonylphenol (4-n-NP) (CAS N. 104-40-5) (*) 4-n-Octylphenol (n-OP) (CAS N. 1806-26-4) (*) 4-tert-Octylphenol (tert-4-OP) (CAS N. 140-66-9) (*) Nonylphenol (NPs) (CAS N. 84852-15-3) (*) tert-Octylphenol (tert-OP) (CAS N. 27193-28-8) (*)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.		mg/kg mg/kg mg/kg mg/kg mg/kg			
Method for the detection and determination of alkylphenoethoxylates (APEO) - Test Method: ISO 18254: 2016 <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS analysis (L1)	Nonylphenoethoxylates (IGEPAL CO-630), (NPEOs) (CAS N. 68412-54-4) (*) Octylphenoethoxylates (Triton X-100), (OPEOs 2-16) (CAS N. 9002-93-1) (*)	< L.O.Q. < L.O.Q.		mg/kg mg/kg			
Determination of chlorinated hydrocarbons in leather. Chromatographic method for short-chain chlorinated paraffins (SCCP). - Test Method: UNI EN ISO 18219: 2015 <u>Operating Conditions</u> - Ultrasonic extraction procedure: 60°C for 1h. - Determination by GC-ECNI-MS analysis. (L1)	Amount of extracted SCCP (C10-C13) (CAS N.85535-84-8)	< L.O.Q.		mg/kg			

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31047 PONTE DI PIAVE TV**

LABORATORY REPORT n° 1938610 of 22/11/2019

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Gb Extractable Heavy Metal in Textile GB 17593.2 (modified) & Cr (VI) GB 17593.3 (modified) - Internal Method: CPSPD-AN-00212 <u>Operating Conditions</u> - Acid Sweat Extraction - Determination by analysis UV-VIS	Total Hexavalent Chromium (Cr-VI) Content (*)	< L.O.Q.		mg/kg			
Determination of the phthalate content - Tetrahydrofuran method - Test Method: UNI EN ISO 14389: 2014 <u>Operating Conditions</u> - Extraction in ultrasonic bath - Detection by GC-MS analysis (L1)	Phthalates (*) 1,2-BenzeneDiCarboxylicAcid, DiHexylester, Branched and Linear (CAS N. 68515-50-4) (*) Bis (2-Methoxyethyl) Phthalate (DMEP) (CAS N.117-82-8) (*) Bis-2-Etylhexyl Phthalate (DEHP) (CAS N. 117-81-7) (*) Butyl Benzil Phthalate (BBP) (CAS N. 85-68-7) (*) Di-cyclohexyl phthalate (DCHP) (CAS N.84-61-7) (*) Di-iso-decil Phthalate (DIDP) (CAS N. 68515-49-1) (*) Di-iso-nonyl Phthalate (DINP) (CAS N. 68515-48-0) (*) Di-iso-octyl phthalate (DIOP) (CAS N. 27554-26-3) (*) Di-isobutyl Phthalate (DIBP) (CAS N. 84-69-5) (*) Di-isoheptyl Phthalate (DIHP) (CAS N. 71888-89-6) (*) Di-isopentyl Phthalate (DIPP) (CAS N. 605-50-5) (*) Di-n-hexyl Phthalate (DnHP) (CAS N. 84-75-3) (*) Di-n-octyl Phthalate (DnOP) (CAS N. 117-84-0) (*) Di-n-propyl phthalate (DPRP) (CAS N. 131-16-8) (*) Dibutyl Phthalate (DBP) (CAS N. 84-74-2) (*)	< L.O.Q.		mg/kg			

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Diethyl Phthalate (DEP) (CAS N. 84-66-2) (*)	< L.O.Q.		mg/kg			
	Diisohexyle phthalate (DIHxP) (CAS 71850-09-4) (*)	< L.O.Q.		mg/kg			
	Dinonyl phthalate (DNP) (CAS N. 84-76-4) (*)	< L.O.Q.		mg/kg			
	Dipentyl Phthalate (DPP) (CAS N. 131-18-0) (*)	< L.O.Q.		mg/kg			
	Diundecil Phthalate (DHNU) (CAS N. 68515-42-4) (*)	< L.O.Q.		mg/kg			
	N-pentyl-isopentyl phthalate (NPIPP) (CAS 776297-69-9) (*)	< L.O.Q.		mg/kg			
Textiles - Determination of metals content - Part 1: Determination of metal with microwave digestions - Test Method DIN EN 16711-1:2014 <u>Operating Conditions</u> - Microwave digestion - Determination by ICP-MS analysis (L1)	Heavy Metals Total Cadmium [Cd] Content (*) Total Lead [Pb] Content (*) Total Mercury [Hg] Content (*) Total Antimony [Sb] Content (*) Total Arsenic [As] Content (*) Total Cobalt [Co] Content (*) Total Nickel [Ni] Content (*) Total Boron [B] Content (*) Total Chromium [Cr] Content (*)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.		mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg			
Detection of the use of certain Azo colorants accessible with and without extracting the fibres - Test Method: UNI EN 14362-1: 2017 <u>Operating Conditions</u> - Quantitative Detection: GC-MS - Confirmation by LC-DAD+LC MS (L2)	Aromatic amines derived from azodyes on fabric 4-Aminobiphenyl (CAS N 92-67-1) (*) Benzidine (CAS 92-87-5) (*) 4-Chloro-o-toluidine (CAS N. 95-69-2) (*) 2-Naphthylamine (CAS N. 91-59-8) (*)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.		mg/kg mg/kg mg/kg mg/kg		(1) (1)	

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	o-Aminoazotoluene (CAS 97-56-3) (*)	< L.O.Q.		mg/kg			
	5-nitro-o-toluidine (CAS 99-55-8) (*)	< L.O.Q.		mg/kg			
	4-Chloroaniline (CAS N. 106-47-8) (*)	< L.O.Q.		mg/kg			
	4-methoxy-m-phenylenediamine (CAS 615-05-04) (*)	< L.O.Q.		mg/kg			
	4,4'-methylenedianiline (CAS 101-77-9) (*)	< L.O.Q.		mg/kg		MDA	
	3,3'-Dichlorobenzidine (CAS N. 91-94-1) (*)	< L.O.Q.		mg/kg			
	3,3'-Dimethoxybenzidine (CAS N. 119-90-4) (*)	< L.O.Q.		mg/kg			
	3,3'-Dimethylbenzidine (CAS N. 119-93-7) (*)	< L.O.Q.		mg/kg			
	4,4'-methylenedi-o-toluidine (CAS N. 838-88-0) (*)	< L.O.Q.		mg/kg			
	p-cresidine (CAS 120-71-8) (*)	< L.O.Q.		mg/kg			
	4,4'-Methylene-bis-(2-chloroaniline) (CAS N. 101-14-4) (*)	< L.O.Q.		mg/kg			
	4,4'-Oxydianiline (CAS N 101-80-4) (*)	< L.O.Q.		mg/kg			
	4,4'-Thiodianiline (CAS N. 139-65-1) (*)	< L.O.Q.		mg/kg			
	o-Toluidine (CAS 95-53-4) (*)	< L.O.Q.		mg/kg			
	4-methyl-m-phenylenediamine (CAS 95-80-7) (*)	< L.O.Q.		mg/kg		TDA	
	2,4,5-Trimethylaniline (CAS N. 137-17-7) (*)	< L.O.Q.		mg/kg			
	o-anisidine (CAS 90-04-0) (*)	< L.O.Q.		mg/kg			
	4-Aminoazobenzene (CAS N. 60-09-3) (*)	< L.O.Q.		mg/kg			
	2,4- Xylidine (CAS 95-68-1) (*)	< L.O.Q.		mg/kg			
	2,6-Xylidine (CAS N. 87-62-7) (*)	< L.O.Q.		mg/kg			
	Aniline (CAS 62-53-3) (*)	< L.O.Q.		µg/l			
Determination of Organotin Compounds in footwear materials - Test Method: UNI CEN ISO TS 16179: 2012 <u>Operating Conditions</u> - Methanol extraction + derivatization - Detection by GC-MS analysis (L1)	Organotin compounds Dibutyl tin (DBT) (*) Dimethyltin (DMT) (*) Dioctyl tin (DOT) (*) Diphenyltin (DPT) (*) Methyl tin (MeT) (*)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.		mg/kg mg/kg mg/kg mg/kg mg/kg			

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Monobutyl tin (MBT) (*)	< L.O.Q.		mg/kg			
	Monooctyl tin (MOT) (*)	< L.O.Q.		mg/kg			
	Phenyltin tin (TPhT) (*)	< L.O.Q.		mg/kg			
	Tetrabutyl tin (TeBT) (*)	< L.O.Q.		mg/kg			
	Tetraethyltin (TeET) (*)	< L.O.Q.		mg/kg			
	Tributyl tin (TBT) (*)	< L.O.Q.		mg/kg			
	Tricyclohexyltin (TCyHT) (*)	< L.O.Q.		mg/kg			
	Trimethyl tin (TMT) (*)	< L.O.Q.		mg/kg			
	Trioctyltin (TOT) (*)	< L.O.Q.		mg/kg			
	Triphenyltin (TPhT) (*)	< L.O.Q.		mg/kg			
	Tripropyltin (TPT) (*)	< L.O.Q.		mg/kg			
Determination of Perfluorinated Compounds - Internal Method: CPSD-AN-00668 <u>Operating Conditions</u> -Solvent extraction and determination by LC-MS QQQ+ GC-MS QQQ (L1)	Perfluorinated Chemicals (PFCs) 1H,1H,2H,2H-perfluorooctylacrylate (6:2 FTA) (CAS N. 17527-29-6) (*)	< L.O.Q.		mg/kg			
	1H,1H,2H,2H-perfluorodecylacrylate (8:2 FTA) (CAS N.27905-45-9) (*)	< L.O.Q.		mg/kg			
	1H,1H,2H,2H-perfluorododecylacrylate (10:2 FTA) (CAS N.17741-60-5) (*)	< L.O.Q.		mg/kg			
	1H,1H,2H,2H-Perfluorooctanesulphonic acid (1H,1H,2H,2H-PFOS) (CAS N 27619-97-2) (*)	< L.O.Q.		mg/kg			
	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) (CAS N.1691-99-2) (*)	< L.O.Q.		mg/kg			
	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) (CAS N. 24448-09-7) (*)	< L.O.Q.		mg/kg			
	2H,2H,3H,3H-perfluoroundecanoic acid (H4PFUnA) (CAS N.34598-33-9) (*)	< L.O.Q.		mg/kg			
	7H-dodecafluoroheptanoic acid (HPFHpA) (CAS N.1546-95-8) (*)	< L.O.Q.		mg/kg			
	N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) (CAS N. 4151-50-2) (*)	< L.O.Q.		mg/kg			
	N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) (CAS N.31506-32-8) (*)	< L.O.Q.		mg/kg			
	Perfluoro-1- heptanesulfonic acid (PFHpS) (CAS N.375-92-8) (*)	< L.O.Q.		mg/kg			

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	Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA) (CAS N.172155-07-6) (*)	< L.O.Q.		mg/kg			
	Perfluoro-n-decanoic acid (PFDA) (CAS N.335-76-2) (*)	< L.O.Q.		mg/kg			
	Perfluoro-n-heptanoic acid (PFHpA) (CAS N.375-85-9) (*)	< L.O.Q.		mg/kg			
	Perfluoro-n-hexanoic acid (PFHxA) (CAS N. 307-24-4) (*)	< L.O.Q.		mg/kg			
	Perfluoro-n-nonanoic acid (PFNA) (CAS N. 375-95-1) (*)	< L.O.Q.		mg/kg			
	Perfluoro-n-octanoic acid (PFOA) (CAS N. 335-67-1) (*)	< L.O.Q.		mg/kg			
	Perfluorobutanesulfonic acid (PFBS) (CAS N.375-73-5) (*)	< L.O.Q.		mg/kg			
	Perfluorobutyric acid (PFBA) (CAS N.375-22-4) (*)	< L.O.Q.		mg/kg			
	Perfluorodecanesulfonic acid (PFDS) (CAS N.335-77-3) (*)	< L.O.Q.		mg/kg			
	Perfluorododecanoic acid (PFDoA) (CAS N.307-55-1) (*)	< L.O.Q.		mg/kg			
	Perfluorohexanesulfonic acid (PFHxS) (CAS N.355-46-4) (*)	< L.O.Q.		mg/kg			
	Perfluorooctane sulfonamide (PFOSA) (CAS N. 754-91-6) (*)	< L.O.Q.		mg/kg			
	Perfluorotetradecanoic acid (PFTeA) (CAS N.376-06-7) (*)	< L.O.Q.		mg/kg			
	Perfluorotridecanoic acid (PFTrA) (CAS N.72629-94-8) (*)	< L.O.Q.		mg/kg			
	Perfluoroundecanoic acid (PFUnA) (CAS N.2058-94-8) (*)	< L.O.Q.		mg/kg			
	Perfluoropentanoic acid (PFPA) (*)	< L.O.Q.		mg/kg			
Determination of FTOH in coated material by GC-MS - Internal Method: CPSD-AN-00667 <u>Operating Conditions</u> -Solvent extraction and determination by GC-MS QQQ (L2)	2- Perfluorobutylethanol (4:2 FTOH) (CAS N.2043-47-2) (*)	< L.O.Q.		mg/kg			
	2- Perfluorohexylethanol (6:2 FTOH) (CAS N.647-42-7) (*)	< L.O.Q.		mg/kg			
	2-Perfluorodecylethanol (10:2 FTOH) (CAS N865-86-1) (*)	< L.O.Q.		mg/kg			
	2-Perfluorooctylethanol (8:2 FTOH) (CAS N.678-39-7) (*)	< L.O.Q.		mg/kg			

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.	
Perfluorinated surfactants - Test Method: UNI CEN TS 15968: 2010 <u>Operating Conditions</u> - Methanol ultrasonic extraction, 2h at 60°C - Determination by LC-MS MS (L1)	Perfluorooctane sulfonate and related compounds (PFOS) (*)	< L.O.Q.		mg/kg				
Determination of the content of bonds based on chlorobenzene and chlorotoluene - Test Method: DIN 54232: 2010 <u>Operating Conditions</u> - Solvent extraction - Determination by GC-MS analysis (L2)	1,2-Dichlorobenzene (CAS N.95-50- 1) (*) 1,3-Dichlorobenzene (CAS N.541- 73-1) (*) 1,4-Dichlorobenzene (CAS N.106- 46-7) (*) 1,2,3-Trichlorobenzene (CAS N.87- 61-6) (*) 1,2,4 Trichlorobenzene (CAS N.120- 82-1) (*) 1,3,5-Trichlorobenzene (CAS N.108- 70-3) (*) 1,2,3,4-Tetrachlorobenzene (CAS N.634-66-2) (*) 1,2,3,5-Tetrachlorobenzene (CAS N.634-90-2), 1,2,4,5- Tetrachlorobenzene (CAS N.95-94- 3) (*) Pentachlorobenzene (CAS N.608- 93-5) (*) Hexachlorobenzene (CAS N.118-74- 1) (*) Chlorobenzene (CAS N.108-90-7) (*) a,a-Dichlorotoluene (CAS N.98-87- 3) (*) alpha, alpha, alpha 4- tetrachlorotoluene (CAS N.5216-25- 1) (*) Benzotrichloride (CAS N.98-07-7) (*) Benzyl chloride (CAS 100-44-7) (*)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.		mg/kg mg/kg				

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 Approved on behalf of BUREAU VERITAS CERTEST srl by:
 Dr. Verena BARTALINI – Laboratory Manager


LAB N. 1480



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31047 PONTE DI PIAVE TV
LABORATORY REPORT n° 1938610 of 22/11/2019

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Analysis of consumer goods - Detection and determination of pentachlorophenol in consumer goods, particularly in leather and textiles - Test Method: BVL B 82.02-8: 2001-06 <u>Operating Conditions</u> - Detection by GC-MS analysis (L1)	Pentachlorophenol (PCP) (CAS N. 87-86-5) (*)	< L.O.Q.		mg/kg			
	2,4,6-TriChlorophenol (2,4,6-TCP) (CAS N. 88-06-2) (*)	< L.O.Q.		mg/kg			
	3,4,5-TriChlorophenol (3,4,5-TCP) & 2,3,4-TriChlorophenol (2,3,4-TCP) (CAS N.609-19-8 & 15950-66-0) (*)	< L.O.Q.		mg/kg			
	2,3,5-TriChlorophenol (2,3,5-TCP) (CAS N. 933-78-8) (*)	< L.O.Q.		mg/kg			
	2,3,6-TriChlorophenol (2,3,6-TCP) (CAS N. 933-75-5) & 2,4,5-TriChlorophenol (2,4,5-TCP) (CAS N95-95-4) (*)	< L.O.Q.		mg/kg			
	2,3,5,6-TetraChlorophenol (2,3,5,6-TeCP) (CAS N. 935-95-5) (*)	< L.O.Q.		mg/kg			
	2,3,4,6-TetraChlorophenol (2,3,4,6-TeCP) (CAS N. 58-90-2) (*)	< L.O.Q.		mg/kg			
	2,3,4,5-TetraChlorophenol (2,3,4,5-TeCP) (CAS N. 4901-51-3) (*)	< L.O.Q.		mg/kg			
	2,3- Dichlorophenol (CAS N.576-24-9) (*)	< L.O.Q.		mg/kg			
	3,4- Dichlorophenol (CAS N.95-77-2) (*)	< L.O.Q.		mg/kg			
	2,5-DiChlorophenol (2,5-DiCP) & 2,4-DiChlorophenol (2,4-DiCP) & 2,6-DiChlorophenol (2,6-DiCP) & 3,5 DiChlorophenol (3,5-DiCP) (CAS N.583-78-8 & CAS N. 120-83-2 & CAS N. 87-65-0 & CAS N.591-35-5) (*)	< L.O.Q.		mg/kg			
	2- Mono Chlorophenol (2-MoCP) (CAS N.95-57-8) (*)	< L.O.Q.		mg/kg			
	3- Mono Chlorophenol (3-MoCP) (CAS N.108-43-0) (*)	< L.O.Q.		mg/kg			
	4- Mono Chlorophenol (4-MoCP) (CAS N.106-48-9) (*)	< L.O.Q.		mg/kg			

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LABORATORY REPORT n° 1938610 of 22/11/2019

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Michler's Ketone and Base - Inhouse Test Method: IOP 55: 2016 Rev00 <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS DAD analysis	Michler's Ketone (CAS90-94-8) (*) Michler's Base (CAS101-61-1) (*)	< L.O.Q. < L.O.Q.		ppm mg/kg	10 10		
Solvent test by gas GC-MS - Inhouse test Method: CPSD-AN-00100 Rev.36: 2017 <u>Operating Conditions</u> - Headspace GC-MS	VOCs Benzene (CAS 71-43-2) (*) Ethylbenzene (CAS 100-41-4) (*)	< L.O.Q. < L.O.Q.		mg/kg mg/kg			
Bisphenol A, in plastics and textiles - Internal Method: CPSD-AN-00169 <u>Operating Conditions</u> Solvent Extraction and detection by LCMS	Bisphenol A (CAS 80-05-7) (*)	< L.O.Q.		mg/kg			
Test method to quantitatively determine polycyclic aromatic Hydrocarbons (PAH) in footwear materials - Test Method: UNI CEN ISO TS 16190: 2013 <u>Operating Conditions</u> - Determination by GC-MS analysis (L2)	Polycyclic Aromatic Hydrocarbons (PAH) Acenaphthene (CAS 83-32-9) Acenaphthylene (CAS 208-96-8) Anthracene (CAS 120-12-7) Benzo[a]anthracene (CAS 56-55-3) Benzo[b]fluoranthene (CAS 205-99-2) Benzo[j]fluoranthene (CAS 205-82-3) Benzo[k]fluoranthene (CAS 207-08-9) Benzo[a]pyrene (CAS 50-32-8) Benzo[e]pyrene (CAS 192-97-2) Benzo[g,h,i]perylene (CAS 191-24-2) Chrysene (CAS 218-01-9)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.		mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg			

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Dibenzo[a,h]anthracene (CAS 53-70-3)	< L.O.Q.		mg/kg			
	Fluoranthene (CAS 206-44-0)	< L.O.Q.		mg/kg			
	Indeno[1,2,3-cd]pyrene (CAS 193-39-5)	< L.O.Q.		mg/kg			
	Naphtalene (CAS 91-20-3)	< L.O.Q.		mg/kg			
	Phenanthrene (CAS 85-01-8)	< L.O.Q.		mg/kg			
	Pyrene (CAS 129-00-0)	< L.O.Q.		mg/kg			
	Fluorene	< L.O.Q.		mg/kg			
Determination of Vinyl chloride monomer (VCM) - Internal Method: CPSD-AN-00099 <u>Operating Conditions</u> - Headspace GC-MS	Vinyl chloride (CAS N. 75-01-4) (*)	< L.O.Q.		mg/kg			
Determination of formaldehyde Part 1: Free and hydrolized formaldehyde (water extraction method) - Test Method: UNI EN ISO 14184-1: 2011 <u>Operating Conditions</u> - Calibration through linear regression between 0,15 and 0,3 µg/ml - Determination by UV-VIS spectrophotometer (L1)	Free and hydrolysed formaldehyde (CAS 50-00-0) (*)	< L.O.Q.		mg/kg			
Detection of disperse dyestuffs - Test Method: DIN 54231: 2005 <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS analysis (L1)	Disperse, Allergenic, Carcinogenic Dyes Acid Red 114 (CAS N. 6459-94-5) (*) Acid Red 26 (CAS N. 3761-53-3) (*) Acid Violet 49 (CAS N. 1694-09-3) (*) Basic Blue 26 (CAS N. 2580-56-5) (*) Basic Green 4 (CAS N. 569-64-2) (*) Basic Green 4 leuco base (CAS N. 129-73-7) (*) Basic Red 9 (CAS N. 569-61-9) (*) Basic Violet 1 (CAS N. 8004-87-3) (*)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.		mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg			

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Basic Violet 14 (CAS N. 632-99-5) (*)	< L.O.Q.		mg/kg			
	Direct Black 38 (CAS N. 1937-37-7) (*)	< L.O.Q.		mg/kg			
	Direct Blue 15 (CAS N. 2429-74-5) (*)	< L.O.Q.		mg/kg			
	Direct Blue 218 (CAS N.28407-37-6) (*)	< L.O.Q.		mg/kg			
	Direct Brown 95 (CAS N.16071-86-6) (*)	< L.O.Q.		mg/kg			
	Direct Red 28 (CAS N. 573-58-0) (*)	< L.O.Q.		mg/kg			
	Disperse Blue 1 (CAS N. 2475-45-8) (*)	< L.O.Q.		mg/kg			
	Disperse Blue 102 (CAS N. 12222-97-8) (*)	< L.O.Q.		mg/kg			
	Disperse Blue 106 (CAS N. 12223-01-7) (*)	< L.O.Q.		mg/kg			
	Disperse Blue 124 (CAS N. 61951-51-7) (*)	< L.O.Q.		mg/kg			
	Disperse Blue 26 (CAS N. 3860-63-7) (*)	< L.O.Q.		mg/kg			
	Disperse Blue 3 (CAS N. 2475-46-9) (*)	< L.O.Q.		mg/kg			
	Disperse Blue 35 (CAS N. 12222-75-2) (*)	< L.O.Q.		mg/kg			
	Disperse Brown 1 (CAS N. 23355-64-8) (*)	< L.O.Q.		mg/kg			
	Disperse Orange 1 (CAS N. 2581-69-3) (*)	< L.O.Q.		mg/kg			
	Disperse Orange 11 (CAS N. 82-28-0) (*)	< L.O.Q.		mg/kg			
	Disperse Orange 149 (CAS N. 151126-94-2) (*)	< L.O.Q.		mg/kg			
	Disperse Orange 3 (CAS N. 730-40-5) (*)	< L.O.Q.		mg/kg			
	Disperse Orange 37/59/76 (CAS N. 13301-61-6) (*)	< L.O.Q.		mg/kg			
	Disperse Red 1 (CAS N. 2872-52-8) (*)	< L.O.Q.		mg/kg			
	Disperse Red 11 (CAS N. 2872-48-2) (*)	< L.O.Q.		mg/kg			
	Disperse Red 17 (CAS N. 3179-89-3) (*)	< L.O.Q.		mg/kg			
	Disperse Yellow 1 (CAS N. 119-15-3) (*)	< L.O.Q.		mg/kg			
	Disperse Yellow 23 (CAS N. 6250-23-3) (*)	< L.O.Q.		mg/kg			
	Disperse Yellow 3 (CAS N. 2832-40-8) (*)	< L.O.Q.		mg/kg			
	Disperse Yellow 49 (CAS N. 54824-37-2) (*)	< L.O.Q.		mg/kg			
	Disperse Yellow 9 (CAS N. 6373-73-5) (*)	< L.O.Q.		mg/kg			
	Solvent Yellow 1 (CAS N. 60-09-3) (*)	< L.O.Q.		mg/kg			

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Solvent Yellow 14 (CAS N. 842-07-9) (*)	< L.O.Q.		mg/kg			
	Solvent Yellow 2 (CAS N. 60-11-7) (*)	< L.O.Q.		mg/kg			
	Solvent Yellow 3 (CAS N. 97-56-3) (*)	< L.O.Q.		mg/kg			
	Direct Blue 6 (CAS N. 2602-46-2) (*)	< L.O.Q.		mg/kg			
	Disperse Blue 7 (CAS N. 3179-90-6) (*)	< L.O.Q.		mg/kg			
	Disperse Yellow 39 (CAS N. 12236-29-2) (*)	< L.O.Q.		mg/kg			
Textiles - Determination of metals content - Part 1: Determination of metal with microwave digestions - Test Method DIN EN 16711-1:2014 <u>Operating Conditions</u> - Microwave digestion - Determination by ICP-MS analysis (L1)	Other (theoretical) Flame retardants calculated by stoichiometry on total metal content All Borium Coumpounds expressed as total B (*) Boron trioxide (*) Sodium tetraborate (*) Orthoboric acid, sodium salt (*) Sodium perborate (*) Sodium Perborate Monohydrate (*) Sodium Perborate Tetrahydrate (*) Sodium perborate trihydrate (*) Sodium tetraborate (*) Sodium tetraborate decahydrate (*) Sodium tetraborate pentahydrate (*) Boric acid (*) Antimony trioxide (*)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.		mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg			
Solvent test by gas GC-HS - Inhouse test Method: CPSD-AN-00100 Rev.36: 2017 <u>Operating Conditions</u> - Headspace GC-MS	Chlorinated Solvents Dichloromethane (CAS N.75-09-2) (*) Chloroform (CAS N. 67-66-3) (*) Tetrachloromethane (CAS N. 56-23-5) (*)	< L.O.Q. < L.O.Q. < L.O.Q.		mg/kg mg/kg mg/kg			

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	1,1,2-Trichloroethane (CAS 79-00-5) (*)	< L.O.Q.		mg/kg			
	1,1-Dichloroethane (CAS N. 75-34-3) (*)	< L.O.Q.		mg/kg			
	1,2-Dichloroethane (CAS N. 107-06-2) (*)	< L.O.Q.		mg/kg			
	Trichloroethylene (CAS N. 79-01-6) (*)	< L.O.Q.		mg/kg			
	Perchloroethylene (CAS N.127-18-4) (*)	< L.O.Q.		mg/kg			
	1,1,1-Trichloroethane (CAS N.71-55-6) (*)	< L.O.Q.		mg/kg			
	1,1,1,2-Tetrachloroethane (CAS N. 630-20-6) (*)	< L.O.Q.		mg/kg			
	1,1,2,2-Tetrachloroethane (CAS N. 79-34-5) (*)	< L.O.Q.		mg/kg			
	Pentachloroethane (CAS N.76-01-7) (*)	< L.O.Q.		mg/kg			
	1,1-Dichloroethylene (CAS N. 75-35-4) (*)	< L.O.Q.		mg/kg			
	1,2,3-Trichloropropane (CAS N96-18-4) (*)	< L.O.Q.		mg/kg			
	1,2-Dibromoethane (CAS 106-93-4) (*)	< L.O.Q.		mg/kg			
	1-bromopropane n-propyl bromide (CAS 106-94-5) (*)	< L.O.Q.		mg/kg			
	2,4-dinitrotoluene (CAS 121-14-2) (*)	< L.O.Q.		mg/kg			
Glycol in textiles and plastics by GC-MS - Inhouse Method: CPSPD AN 00822 <u>Operating Conditions</u> - Solvent extraction - GC-MS analysis	Glycols Ethylene glycol (CAS N. 107-21-1) (*) Ethylene glycol monomethyl ether (CAS N. 109-86-4) (*) Ethylene glycol monomethyl ether acetate; 2-Methoxyethyl acetate (CAS N. 110-49-6) (*) 1,2-dimethoxyethane; ethylene glycol dimethyl ether; EGDME (CAS N. 110-71-4) (*) Ethylene glycol monoethyl ester (CAS N. 110-80-5) (*) 2-ethoxyethylacetate (CAS N. 111-15-9) (*) Bis-(2-methoxyethyl) ether (CAS N. 111-96-6) (*) Glycol; triglyme (TEGDME) (CAS N. 112-49-2) (*)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.		mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg			

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LABORATORY REPORT n° 1938610 of 22/11/2019

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	1,2-Diethoxyethane (CAS 629-14-1) (*)	< L.O.Q.		mg/kg			
	2-methoxypropyl acetate (CAS 70657-70-4) (*)	< L.O.Q.		mg/kg			
Footwear - Critical substances potentially present in footwear and footwear components - Determination of Nitrosamines - Test method: ISO/DIS 19577: 2019 <u>Operating Conditions</u> - Solvent extraction and GC-MS determination	N-Nitrosocompounds N-Nitrosodiethanolamine (CAS N. 1116-54-7) (*) N-Nitrosodiethylamine (NDEA) (CAS N. 55-18-5) (*) N-Nitrosomorpholine (NMOR) (CAS N. 59-89-2) (*) N-nitroso N-methyl N-phenylamine (NMPPhA); N-Methyl-N- nitrosoanilin (CAS N. 614-00-6) (*) N-Nitrosodi-n-butylamine (NDBA) (CAS N. 924-16-3) (*) N-Nitrosopiperidine (NPIP) (CAS N. 100-75-4) (*) N-Nitrosomethylethylamine (CAS N. 10595-95-6) (*) N-nitroso-N-ethyl-N-phenylamine (NEPhA); N-Ethyl-N-nitrosoanilin (CAS N. 612-64-6) (*) N-Nitrosodimethylamine (NDMA) (CAS N. 62-75-9) (*) N-Nitrosodi-n-propylamine (NDPA) (CAS N. 621-64-7) (*) N-Nitrosopyrrolidine (NPYR) (CAS N. 930-55-2) (*) p-Nitrosodiphenylamine (CAS N. 156-10-5) (*) N-Nitrosodiphenylamine (CAS N. 86-30-6) (*) N-Methyl-N'-nitro-N-nitrosoguanidine (CAS 70-25-7) (*)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.		mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg			
Determination of Epichlorohydrin - Inhouse Method: IOP 157 Rev.00:2019 <u>Operating Conditions</u> - Headspace GC-MS (L2)	Epichlorohydrin (*)	< L.O.Q.		mg/kg		1	

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Determination of Acrylonitrile and 1,3-Butadiene - Inhouse Method: IOP 158 Rev.00:2019 <u>Operating Conditions</u> - Headspace GC-MS (L2)	1,3-Butadiene (*)	< L.O.Q.		mg/kg	0,1		
	Acrylonitrile (*)	< L.O.Q.		mg/kg	0,1		
Determination of Ethyl acrylate - Inhouse Method: IOP 159 Rev.00: 2019 <u>Operating Conditions</u> - Headspace GC-MS (L2)	Ethyl acrylate (*)	< L.O.Q.		mg/kg	10		
Determination of Acrylamide - Inhouse Method: IOP 160 Rev.00: 2019 <u>Operating Conditions</u> - Headspace GC-MS (L2)	Acrylamide (*)	< L.O.Q.		mg/kg	1		
Detection of disperse dyestuffs - Test Method: DIN 54231: 2005 <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS analysis (L1)	Disperse, Allergenic, Carcinogenic Dyes						
	Acid Red 114 (CAS N. 6459-94-5) (*)	< L.O.Q.		mg/kg			
	Acid Red 26 (CAS N. 3761-53-3) (*)	< L.O.Q.		mg/kg			
	Acid Violet 49 (CAS N. 1694-09-3) (*)	< L.O.Q.		mg/kg			
	Basic Blue 26 (CAS N. 2580-56-5) (*)	< L.O.Q.		mg/kg			
	Basic Green 4 (CAS N. 569-64-2) (*)	< L.O.Q.		mg/kg			
	Basic Green 4 leuco base (CAS N. 129-73-7) (*)	< L.O.Q.		mg/kg			
	Basic Red 9 (CAS N. 569-61-9) (*)	< L.O.Q.		mg/kg			
	Basic Violet 1 (CAS N. 8004-87-3) (*)	< L.O.Q.		mg/kg			
	Basic Violet 14 (CAS N. 632-99-5) (*)	< L.O.Q.		mg/kg			
	Direct Black 38 (CAS N. 1937-37-7) (*)	< L.O.Q.		mg/kg			
	Direct Blue 15 (CAS N. 2429-74-5) (*)	< L.O.Q.		mg/kg			
	Direct Blue 218 (CAS N.28407-37-6) (*)	< L.O.Q.		mg/kg			

Continuing...

 Approved on behalf of BUREAU VERITAS CERTEST srl by:
 Dr. Verena BARTALINI – Laboratory Manager


LAB N. 1480



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ONGETTA SRL UNIPERSONALE
VIA DALLA TORRE 5 LEVADA
31047 PONTE DI PIAVE TV
LABORATORY REPORT n° 1938610 of 22/11/2019

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Direct Brown 95 (CAS N.16071-86-6) (*)	< L.O.Q.		mg/kg			
	Direct Red 28 (CAS N. 573-58-0) (*)	< L.O.Q.		mg/kg			
	Disperse Blue 1 (CAS N. 2475-45-8) (*)	< L.O.Q.		mg/kg			
	Disperse Blue 102 (CAS N. 12222-97-8) (*)	< L.O.Q.		mg/kg			
	Disperse Blue 106 (CAS N. 12223-01-7) (*)	< L.O.Q.		mg/kg			
	Disperse Blue 124 (CAS N. 61951-51-7) (*)	< L.O.Q.		mg/kg			
	Disperse Blue 26 (CAS N. 3860-63-7) (*)	< L.O.Q.		mg/kg			
	Disperse Blue 3 (CAS N. 2475-46-9) (*)	< L.O.Q.		mg/kg			
	Disperse Blue 35 (CAS N. 12222-75-2) (*)	< L.O.Q.		mg/kg			
	Disperse Brown 1 (CAS N. 23355-64-8) (*)	< L.O.Q.		mg/kg			
	Disperse Orange 1 (CAS N. 2581-69-3) (*)	< L.O.Q.		mg/kg			
	Disperse Orange 11 (CAS N. 82-28-0) (*)	< L.O.Q.		mg/kg			
	Disperse Orange 149 (CAS N. 151126-94-2) (*)	< L.O.Q.		mg/kg			
	Disperse Orange 3 (CAS N. 730-40-5) (*)	< L.O.Q.		mg/kg			
	Disperse Orange 37/59/76 (CAS N. 13301-61-6) (*)	< L.O.Q.		mg/kg			
	Disperse Red 1 (CAS N. 2872-52-8) (*)	< L.O.Q.		mg/kg			
	Disperse Red 11 (CAS N. 2872-48-2) (*)	< L.O.Q.		mg/kg			
	Disperse Red 17 (CAS N. 3179-89-3) (*)	< L.O.Q.		mg/kg			
	Disperse Yellow 1 (CAS N. 119-15-3) (*)	< L.O.Q.		mg/kg			
	Disperse Yellow 23 (CAS N. 6250-23-3) (*)	< L.O.Q.		mg/kg			
	Disperse Yellow 3 (CAS N. 2832-40-8) (*)	< L.O.Q.		mg/kg			
	Disperse Yellow 49 (CAS N. 54824-37-2) (*)	< L.O.Q.		mg/kg			
	Disperse Yellow 9 (CAS N. 6373-73-5) (*)	< L.O.Q.		mg/kg			
	Solvent Yellow 1 (CAS N. 60-09-3) (*)	< L.O.Q.		mg/kg			
	Solvent Yellow 14 (CAS N. 842-07-9) (*)	< L.O.Q.		mg/kg			
	Solvent Yellow 2 (CAS N. 60-11-7) (*)	< L.O.Q.		mg/kg			
	Solvent Yellow 3 (CAS N. 97-56-3) (*)	< L.O.Q.		mg/kg			
	Direct Blue 6 (CAS N. 2602-46-2) (*)	< L.O.Q.		mg/kg			

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Disperse Blue 7 (CAS N. 3179-90-6) (*)	< L.O.Q.		mg/kg			
	Disperse Yellow 39 (CAS N. 12236-29-2) (*)	< L.O.Q.		mg/kg			
Determination of flame retardants - Test method: ISO 17881-1: 2016 <u>Operating Conditions</u> - Solvent extraction - Determination by GC-MS (L1)	Flame retardants						
	Tetrabromo biphenyls (TetraBB) (*)	< L.O.Q.		mg/kg			
	Pentabromo biphenyls (PentaBB) (*)	< L.O.Q.		mg/kg			
	Hexabromo biphenyls (HexaBB) (*)	< L.O.Q.		mg/kg			
	Heptabromo biphenyls (HeptaBB) (*)	< L.O.Q.		mg/kg			
	Octabromo biphenyls (OctaBB) (*)	< L.O.Q.		mg/kg			
	Nonabromo biphenyls (NonaBB) (*)	< L.O.Q.		mg/kg			
	Decabromo biphenyl (DecaBB) (*)	< L.O.Q.		mg/kg			
	Monobromo diphenyl ethers (MonoBDE) (*)	< L.O.Q.		mg/kg			
	Dibromo diphenyl ethers (DiBDE) (*)	< L.O.Q.		mg/kg			
	Tribromo diphenyl ethers (TriBDE) (*)	< L.O.Q.		mg/kg			
	Tetra-bromodiphenyl ether (TetraBDE) (*)	< L.O.Q.		mg/kg			
	Penta-bromodiphenyl ether (PentaBDE) (*)	< L.O.Q.		mg/kg			
	Hexabromo diphenyl ethers (HexaBDE) (*)	< L.O.Q.		mg/kg			
	Heptabromo diphenyl ethers (HeptaBDE) (*)	< L.O.Q.		mg/kg			
	Octa-bromodiphenyl ether (OctaBDE) (*)	< L.O.Q.		mg/kg			
	Nonabromo diphenyl ethers (NonaBDE) (*)	< L.O.Q.		mg/kg			
	Decabromodiphenyl ether (DecaBDE) (*)	< L.O.Q.		mg/kg			
	Tris (2,3-dibromopropyl)-phosphate (TRIS) (*)	< L.O.Q.		mg/kg			
	Exabromocyclododecane (HBCDD) (*)	< L.O.Q.		mg/kg			
	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP) (*)	< L.O.Q.		mg/kg			
	Monobromo biphenyl (MonoBB) (*)	< L.O.Q.		mg/kg			
	Dibromo biphenyls (DiBB) (*)	< L.O.Q.		mg/kg			
Tribromo biphenyl (TriBB) (*)	< L.O.Q.		mg/kg				

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31047 PONTE DI PIAVE TV

LABORATORY REPORT n° 1938610 of 22/11/2019

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Determination of flame retardants - Test method: ISO 17881-2: 2016 <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS (L1)	Flame retardants Tris(2-chloroethyl)phosphate (TCEP) (*) Tris (1-aziridinyl)-phosphine oxide (TEPA) (*) Tri-o-cresyl phosphate (*)	< L.O.Q.		mg/kg			
		< L.O.Q.		mg/kg			
		< L.O.Q.		mg/kg			
		< L.O.Q.		mg/kg			
TRIS, BIS, HBCDD, TBBPA, BBMP & BDBPT in textile - Internal Method: CPSD-AN-00131 <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS	Tetrabromo-bisphenol A (TBBPA) (*)	< L.O.Q.		mg/kg			

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LABORATORY REPORT n° 1938610 of 22/11/2019

Notes

< L.O.Q.: Not detectable analytically

(1) = If the use of this analytical method has detected 4-aminodiphenyl and/or 2-naphtylamine, according to the current state of knowledge it cannot be unequivocally confirmed without additional information that azo colorants which release amines were used.

MDA =

In case of polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

TDA = In case of polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 2,4-toluen-diamine (TDA, CAS 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of non-indication from the client of the category of the material to be tested, the laboratory will identify it and will test it according to the specifics of the defined category.

* The assessment is obtained by the comparison between the Result of the analysis ("Result" column) and the required Limit ("Limit" column).

Limits: Values indicated in the Limits column refer to the requirements stated in the document named in the "Requirements" field of the "Denomination" section

U.M.: Units of Measurement

L.O.Q.: Limit of Quantification

Assess.: Assessment

Pass: the test result is conform to the standard required

Fail: the test result is not conform to the standard required

N/A: it is not possible to carry out the test, or the test result can not be defined as "Pass" or "Fail"

The evaluations of change in color are carried out in accordance with ISO 105-A02 (or GB/T 250 for Chinese market methods), the evaluations of color staining are carried out in accordance with ISO 105-A03 (or GB/T 251 for Chinese market methods).

BWS: Blue Wool Scale

GSR: Grey Scale Rating

L1: test executed at Bureau Veritas Certest srl Laboratory Via Risorgimento, 16- 56028 San Miniato (Pisa)- Italy

L2: test executed at Bureau Veritas Certest srl Laboratory Via f.lli Rosselli, 6- 56028 San Miniato (Pisa)- Italy

The tests marked by an asterisk (*) are not part of the ACCREDIA accreditation.

Opinions and interpretations are not part of the ACCREDIA accreditation.

This report has been issued by Bureau Veritas Certest s.r.l. quality system and well documented by our own quality manual and related procedures. Results reported have been achieved applying rules and/or technical procedures specified in the following pages and they refer solely to the samples received and tested in our laboratory not to the batch which they represent. The sample has been analyzed the way it has been received from the client. Reproduction of this document is allowed only with an exact copy of the original. Partial reproduction of this documents allowed subject to Bureau Veritas Certest s.r.l. approval and is registered with the referring report number. Only the original report is valid and partial re production of this document is allowed subject to Bureau Veritas Certest s.r.l. approval and is registered with the referring report number. The use of this report in a judicial process must be expressly authorized by Certest srl. The records related to the analyzes carried out are retained for a period of 48 months. Samples tested are stored for three months if not otherwise required or agreed with the Client. The expanded uncertainty (U) is calculated with a coverage factor k=2 for a confidence level of 95% and a number of degrees of freedom greater than or equal to 10. In case of qualitative tests, the expanded uncertainty (U) is not applicable, so the reference column will be populated with "N/A".

Whenever the supplied sample amount is not enough to perform all the trials required by the Method, the laboratory will perform the higher number of tests with the provided material.

Decision rule: For analyses subjected to visual assessment and colour fastness tests the Laboratory defines the Pass/Fail not taking into account the uncertainty associated to the measurement result. The uncertainty associated to the test Method is available upon specific request of the Client.

For all other analyses, where the decision rule is not defined within the test method, the result is assessed as a Fail whenever it overcomes the LV (Limit Value) beyond a reasonable doubt, also taking into account the expanded uncertainty (U), calculated at a confidence level of 95% applying the Guard Band defined as the quantity "g" obtained from $g=k \cdot \text{UrdP}$

UrdP=standard uncertainty of the measurement result.

k=coverage factor with a confidence level of 95%, unilateral type equal to 1,645.

Information shown in the "Denomination" field, related to the sample description, are reported as provided by the Client within the Test Request Form.

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Approved on behalf of BUREAU VERITAS CERTEST srl by:
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LABORATORY REPORT n° 1938610 of 22/11/2019



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